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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,355	02/07/2006	Hiroshi Morikawa	IRD-0003	9323
23353 7590 02/22/2008 RADER FISHMAN & GRAUER PLLC			EXAMINER	
LION BUILDI	NG		DICKER, DENNIS T.	
	1233 20TH STREET N.W., SUITE 501 WASHINGTON, DC 20036		ART UNIT	PAPER NUMBER
	,		2625	
			MAIL DATE	DELIVERY MODE
			02/22/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/521,355	MORIKAWA, HIROSHI				
Office Action Summary	Examiner	Art Unit				
	Dennis Dicker	2625				
The MAILING DATE of this communication app		vith the correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period or Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MC e, cause the application to become a	ICATION. a reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>07 F</u>	Responsive to communication(s) filed on <u>07 February 2006</u> .					
,	,					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		•				
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6</u> is/are rejected.	•					
•	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.	•				
Application Papers						
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>07 February 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	xaminer. Note the attach	ed Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a) ⊠ All b) □ Some * c) □ None of:	ts have been received	•				
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
3. Copies of the certified copies of the priority documents have been received in Application 110.						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
		·				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 1/14/2005. 5) Notice of Informal Patent Application 6) Other:						

DETAILED ACTION

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 5-6 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 5-6 fail to claim that the program is recorded on an appropriate computer or printer readable medium so as to be structurally functionally interrelated to the medium and thus permit the function of a descriptive material to be realized.

Examples of acceptable language in computer-processing relating claim

- 1. "Computer readable medium" encoded with
 - [a] "a computer program"
 - [b] "Software"
 - [c] "Computer executable instructions"
 - [d] "Instructions capable of being executed on a compute
- 2. "A computer readable medium computer program"
 - [a] storing a
 - [b] embodied with a
 - [c] encoded with a
 - [d] having a stored
 - [e] having an encode

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Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Ishida et al (hereinafter "Ishida '978" 6,232,978).

As pertaining to Claim 1, Ishida '978 teaches a printing apparatus (i.e., Col. 13 Lines 55-60 and 15 of Fig. 1, Printer) comprising: a bitmap data (i.e., Col. 9 Lines 35-36, Bit map data) storage unit for storing bitmap data (i.e., Col. 3 lines 30-33, bit map data is stored on a disk); a bitmap data acquisition unit for acquiring said bitmap data from said bitmap data storage unit (i.e., Col. 3 Lines 30-33,CPU for getting hold of bit map data stored in storage unit); a jaggy elimination processing unit (i.e.,12, 13 and 14 of Fig. 9, outline smoothing unit is used as a jaggy elimination unit) for executing processing of eliminating jaggies on said bitmap data (i.e., Col. 9 Lines 27-29, outline smoothing unit eliminates jaggies on bitmap data also called contour vectors [Col 8 Lines 53-54]); and a printing unit (i.e.,15 of Fig. 1, Output printing unit) for printing data that is produced based on processing results from said jaggy elimination processing unit (i.e., Col. 13 Lines 55-60, as shown in Fig. 1 the output unit [15] prints data produced based on the processing results of the jaggy elimination processing unit [13]).

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As pertaining to Claim 2, Ishida '978 teaches a printing apparatus wherein said jaggy elimination processing unit comprises: a jaggy detection unit (i.e., Col. 3 Line 49, CPU) for detecting jaggies appearing on said bitmap data (i.e., Col. 3 Lines 49-62, CPU unit detects jaggies in bit map data); and a vector data production unit for producing vector data (i.e.,12 of Fig. 1 and Col. 1 Lines 44-47, Outline extraction unit produces vector data from image data), based on all stair-like straight lines on jaggies that were detected by said jaggy detection unit (i.e., Col. 3 Lines 49-52, jaggy detection unit creates vector data based on stair like straight lines), by drawing a straight line from a midpoint of one straight line to a midpoint of another straight line adjacent thereto (i.e., Fig. 5 and col. 7 lines 32-40, a straight line from a midpoint of one straight line to an midpoint of another adjacent straight line is drawn).

As pertaining to Claim 3, Ishida '978 teaches a printing apparatus further comprising: a transformation rule retention unit (i.e., 12 of Fig. 1, outline extraction unit) for retaining data transformation rules for transforming bitmap data (i.e., Col 2 lines 4-10, outline extraction unit retains transformation rules for detecting contour edge vectors for transformation of bitmap data); and a data transformation unit (i.e.,14 of Fig. 1, binary image reproducing unit) for transforming part of said bitmap data according to said transformation rules (i.e., Col. 11 lines 59-63, transformation unit reproduces bit map data according too transformation rules from the outline vector data), said printing unit printing data that is produced based on transformation results from said data transformation unit and processing results from said jaggy elimination processing unit (i.e., Col. 13 Lines 55-60, as shown in Fig. 1

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the output unit[15] prints data produced based on the transformation results of the transformation unit [14] and processing results from the jaggy elimination processing unit [13]).

As pertaining to Claim 4, Ishida '978 teaches a printing apparatus wherein said transformation rules include 3 x 3 dot patterns before transformation (i.e., Col. 2 lines 1-4, transformations rules for transforming bit map data contain 3x3 dot pixel pattern the pixel of interest and 8 pixels neighboring) and 3 x 3 dot patterns after transformation (i.e., Fig. 11 and col. 2 lines 16-18, after transformation there is an extraction of a 3x3 dot pattern); and according to said transformation rules, if a dot pattern on said bitmap data matches any one of said dot patterns before transformation said pattern is transformed into a corresponding one of said dot patterns after transformation (i.e., Col 4 lines 37-42, according to transformation rules if coordinate values of a dot pattern match a dot pattern transformed the coordinate values are adopted after transformation).

As pertaining to Claim 5, Ishida '978 teaches a computer program that enables a computer to execute (i.e., col. 15 lines 31-33, Computer program enabling a computer to execute the steps taught by Ishida '978) the steps of: acquiring bitmap data stored on the computer (i.e., Col. 11 lines 29-47, acquisition unit acquires data stored on a computer); eliminating jaggies appearing on said bitmap data(i.e., Col. 9 Lines 27-29, outline smoothing unit eliminates jaggies on bitmap data also called contour vectors [Col 8 Lines 53-54]); and specifying printing of data that is produced based on processing results obtained in said jaggy elimination step (i.e., Col. 13 Lines

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55-60, as shown in Fig. 1 the output unit prints data produced based on the processing results of the smoothing unit which executes the jaggy elimination step).

As pertaining to Claim 6, Ishida '978 teaches a computer program that enables the computer to further execute the step of transforming part of said bitmap data according to transformation rules stored on the computer (i.e., Col. 3 Lines 49-62, the transformation rules [Fig. 18] stored on the computer for transforming bit map data), and wherein said step of specifying printing of data that is produced based on processing results obtained in said jaggy elimination step (i.e., Col. 13 Lines 55-60, as shown in Fig. 1 the output unit prints data produced based on the processing results of the smoothing unit which executes the jaggy elimination step).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis Dicker whose telephone number is (571) 270-3140. The examiner can normally be reached on Monday -Friday 7:30 A.M. to 5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles can be reached on (571) 272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GABRIEL GARCIA Y PRIMARY EXAMILIER

2/15/2008